

Other Grain Exports

Sorghum

Sorghum Grades and Grade Requirements

Sorghum is divided into four classes: Sorghum, Tannin sorghum, White sorghum, and Mixed sorghum. There are no subclasses in sorghum. Each class is divided into four

numerical grades and U.S. Sample grade. Special grades are provided to emphasize special qualities or conditions affecting the value of sorghum. Special grades are added to and made a part of the grade designation. They do not affect the numerical or Sample grade designation.

U.S. Standards for Sorghum

Grade	Minimum test weight per bushel (pounds)	Maximum limits of -			
		Damaged kernels		Broken kernels and foreign material	
		Heat- damaged kernels (percent)	Total damaged kernels (percent)		
				Total (percent)	Foreign material
U.S.No. 1	57.0	0.2	2.0	4.0	1.5
U.S.No. 2	55.0	0.5	5.0	7.0	2.5
U.S.No. 3 <sup>1</sup>	53.0	1.0	10.0	10.0	3.5
U.S.No. 4	51.0	3.0	15.0	13.0	4.5
U.S. Sample grade					

U.S. Sample grade is sorghum that:

- (a) Does not meet the requirements for the grades U.S. Nos. 1, 2, 3, or 4; or
- (b) Contains 8 or more stones which have an aggregate weight in excess of 0.2 percent of the sample weight, 2 or more pieces of glass, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans (*Ricinus communis* L.), 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic substance(s), 8 or more cockleburs (*Xanthium* spp.) or similar seeds singly or in combination, 10 or more rodent pellets, bird droppings, or equivalent quantity of other animal filth; or
- (c) Has a musty, sour, or commercially objectionable foreign odor (except smut odor); or
- (d) Is badly weathered, heating, or of distinctly low quality.

<sup>1</sup> Sorghum which is distinctly discolored shall grade not higher than U.S. No. 3.

## Sorghum

### Definitions

**Test weight (lb/bu)** is pounds of grain per Winchester bushel (2.150.42 cubic inches) as determined using an approved device before the removal of dockage.

**Test weight (kg/hl)** is the metric system equivalent to pounds per bushel. Kilograms per hectoliter are calculated by multiplying pounds per bushel by 1.287.

**Heat-damaged kernels** are kernels, pieces of sorghum kernels, and other grains that are materially discolored and damaged by heat.

**Damaged kernels** are kernels, pieces of sorghum kernels, and other grains that are badly ground-damaged, badly weather-damaged, diseased, frost-damaged, germ-damaged, heat-damaged, insect-bored, mold-damaged, sprout-damaged, or otherwise materially damaged.

**Foreign material** is all matter except sorghum, which passes over the number 6 riddle and all matter other than sorghum that remains on the top of the 5/64 triangular-hole sieve.

**Broken kernels** are all matter which passes through a 5/64 triangular-hole sieve and over a 2.5/64 round-hole sieve.

**Broken kernels and foreign material** consists of the combination of broken kernels and foreign material.

**Dockage** is all matter other than sorghum that can be removed from the original sample by use of an approved device. Also, underdeveloped, shriveled, and small pieces of sorghum kernels removed in properly separating the material other than sorghum.

**Moisture** is the water content of grain as determined by an approved moisture meter. The percentage of moisture in a sample does not affect the numerical grade.

**Mixed sorghum** is a sorghum which does not meet the minimum requirements for any of the classes of sorghum, Tannin sorghum or White sorghum.

**Table 14. U.S. Sorghum Exports: Number of lots and quantity exported by class and grade, 2003-2005**

Class	Grade	2003		2004		2005	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
Yellow Sorghum	U.S. No. 1	--	--	--	--	1	3,264
	U.S. No. 2	276	3,481,474	235	2,926,726	283	3,118,253
	U.S. No. 3	1	2,567	--	--	2	17,063
	All lots	277	3,484,041	235	2,926,726	286	3,138,580
All Classes	U.S. No. 1	--	--	--	--	1	3,264
	U.S. No. 2	276	3,481,474	235	2,926,726	283	3,118,253
	U.S. No. 3	1	2,567	--	--	2	17,063
	All lots	277	3,484,041	235	2,926,726	286	3,138,580

-- = No lots reported in this category.

Table 15. Summary of export Sorghum quality, 2003-2005

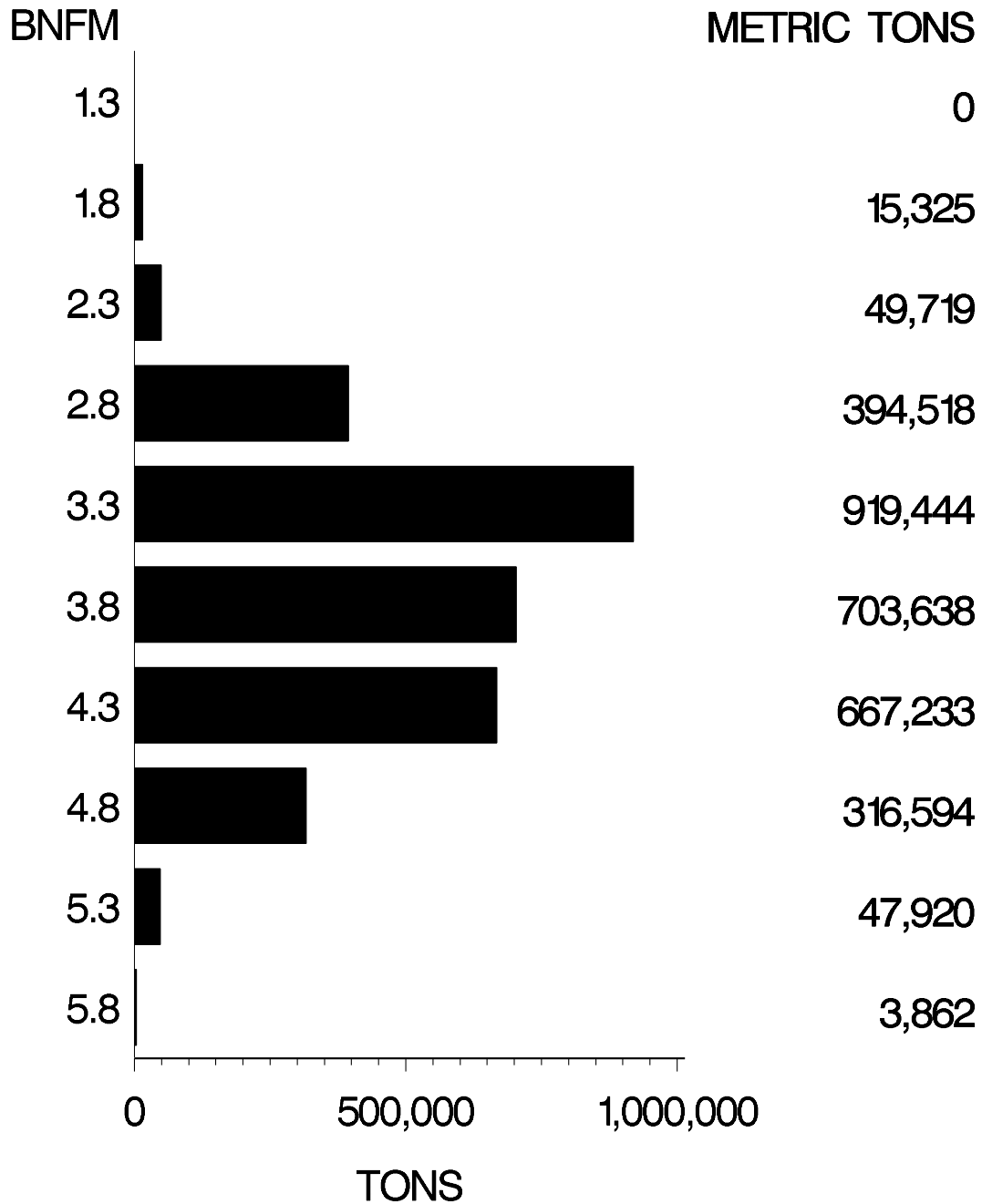
Factor	Grade	Grade Limit	2003				2004				2005			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S. No. 1		--	--	--	--	--	--	--	--	1	59.3	59.3	59.3
	U.S. No. 2	55.0	276	58.0	56.3	60.5	235	58.0	55.0	61.2	283	58.2	55.3	60.4
	U.S. No. 3	53.0	1	59.1	59.1	59.1	--	--	--	--	2	57.6	56.2	58.6
	All lots	N/A	277	58.0	56.3	60.5	235	58.0	55.0	61.2	286	58.2	55.3	60.4
Test Weight (kg/hl)	U.S. No. 1		--	--	--	--	--	--	--	--	1	76.4	76.4	76.4
	U.S. No. 2	N/A	276	74.7	72.5	77.9	235	74.7	70.8	78.7	283	74.9	71.2	77.8
	U.S. No. 3	N/A	1	76.1	76.1	76.1	--	--	--	--	2	74.2	72.3	75.4
	All lots	N/A	277	74.7	72.5	77.9	235	74.7	70.8	78.7	286	74.9	71.2	77.8
Moisture	U.S. No. 1		--	--	--	--	--	--	--	--	1	13.7	13.7	13.7
	U.S. No. 2	N/A	276	13.6	12.7	14.0	235	13.5	12.1	14.5	283	13.6	12.6	14.3
	U.S. No. 3	N/A	1	14.0	14.0	14.0	--	--	--	--	2	13.9	13.8	14.0
	All lots	N/A	277	13.6	12.7	14.0	235	13.5	12.1	14.5	286	13.6	12.6	14.3
Heat-damaged Kernels	U.S. No. 1		--	--	--	--	--	--	--	--	1	0.0	0.0	0.0
	U.S. No. 2	0.5	276	0.0	0.0	0.1	235	0.0	0.0	0.1	283	0.0	0.0	0.1
	U.S. No. 3	1.0	1	0.0	0.0	0.0	--	--	--	--	2	0.0	0.0	0.0
	All lots	N/A	277	0.0	0.0	0.1	235	0.0	0.0	0.1	286	0.0	0.0	0.1
Damaged Kernels (Total)	U.S. No. 1		--	--	--	--	--	--	--	--	1	0.9	0.9	0.9
	U.S. No. 2	5.0	276	1.8	0.2	5.0	235	1.4	0.0	4.1	283	1.1	0.0	3.3
	U.S. No. 3	10.0	1	7.8	7.8	7.8	--	--	--	--	2	1.7	1.5	1.9
	All lots	N/A	277	1.8	0.2	7.8	235	1.4	0.0	4.1	286	1.1	0.0	3.3
Broken Kernels and Foreign Material	U.S. No. 1		--	--	--	--	--	--	--	--	1	3.4	3.4	3.4
	U.S. No. 2	7.0	276	4.1	2.1	6.2	235	3.8	1.8	5.6	283	3.6	1.5	5.5
	U.S. No. 3	10.0	1	3.8	3.8	3.8	--	--	--	--	2	5.2	4.9	5.6
	All lots	N/A	277	4.1	2.1	6.2	235	3.8	1.8	5.6	286	3.6	1.5	5.6
Broken Kernels	U.S. No. 1		--	--	--	--	--	--	--	--	--	--	--	--
	U.S. No. 2	N/A	29	2.6	0.8	3.4	36	2.4	1.3	2.8	11	2.1	1.7	4.4
	U.S. No. 3	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	29	2.6	0.8	3.4	36	2.4	1.3	2.8	11	2.1	1.7	4.4
Foreign Material	U.S. No. 1		--	--	--	--	--	--	--	--	1	1.1	1.1	1.1
	U.S. No. 2	2.5	276	1.1	0.0	2.4	235	1.1	0.0	2.5	283	1.0	0.0	2.3
	U.S. No. 3	3.5	1	1.1	1.1	1.1	--	--	--	--	2	1.2	0.0	3.0
	All lots	N/A	277	1.1	0.0	2.4	235	1.1	0.0	2.5	286	1.0	0.0	3.0
Dockage	U.S. No. 1		--	--	--	--	--	--	--	--	1	0.1	0.1	0.1
	U.S. No. 2	N/A	271	0.2	0.1	0.6	234	0.2	0.1	0.5	276	0.2	0.1	0.4
	U.S. No. 3	N/A	1	0.2	0.2	0.2	--	--	--	--	2	0.3	0.2	0.3
	All lots	N/A	72	0.2	0.1	0.6	234	0.2	0.1	0.5	279	0.2	0.1	0.4

N/A = Does not apply.

-- = No lots reported in this category.

# U.S. SORGHUM EXPORTED, 2005

## DISTRIBUTION FOR BNFM — GRADE 2



# U.S. SORGHUM EXPORTED, 2005

## DISTRIBUTION FOR FM — GRADE 2

